## OFDM RECEIVER AND ITS FREQUENCY OFFSET COMPENSATION METHOD

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US7149266 (B1) Applicant(s): SHARP KK + (SHARP CORP) Classification: WO0070802 (A1) - international H04J11/00; H04L7/00; H04L27/26; H04J11/00; H04L7/00; H04L27/26; (IPC1-7): H04J11/00; H04L7/00 more >> - European: H04L27/26M5C3 Application number: JP19990248666 19990902 Priority number(s): JP19990248666 19990902; JP19990136639 19990518 Abstract of JP 2001036500 (A) PROBLEM TO BE SOLVED: To provide an OFDM receiver where a frequency offset compensation range can be extended. SOLUTION: The OFDM receiver that receives and demodulates an OFDM signal with a start symbol added thereto prior to a data symbol is provided with a memory means 51 STREET IN 150 that stores N kinds (N is a natural number being 2 or 中 在100日 over) of reference signals equivalent to part in the start symbol, cross- correlation means 52, 53 that calculate a cross-correlation between the OFDM BERR N

circulars a cross-confession between the U-Unit signal and N facts of the reference signals, a peak position detection means 56 that detects a peak position detection means 56 that detects as peak obtained by the cross-correlation means 52, 53 and a frequency offset estimate means 55 that estimates a frequency offset estimate means 55 that estimates a frequency offset on the basis of the crosscorrelation at N-sets of the peak positions; The OFDM receiver compensates the frequency offset of the OFDM signal on the basis of the frequency offset estimated by the frequency offset estimate means

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